

Bmk. No. A-22

Dredging Control Officer, WJ-5782-03

1. Regularly stands scheduled production control watches. As such is assigned the production control function aboard on automated hopper dredge. The main function of the dredge is to maintain entrances and estuaries of harbors along a coastline and in large rivers. The dredge is highly automated and equipped with sophisticated electronic equipment to monitor dredging functions. The dredging machinery is automated. The dredging control station is located on the bridge and operates the dragarms for both sides with the help of indicators on the console, minors and/or video monitors. Monitors and controls dredging operations in accordance with plans, specifications and instruction. Operates console controls involving the dredging and dumping function. Responsible to monitor the speed up the vessel as it affects dredging production. Coordinates with the mate on watch in order to attain optimal dredging production. Observes gauges and adjusts controls to insure optimum loads. Is cognizant of sideways set of vessel due to the combined effect of wind, current and other sea conditions. Constantly monitors the automatic dredging control system. In the event of malfunction provides immediate manual response to override the automatic system. Raises the appropriate drag to prevent binding and breakage of the dredge pipe against side of dredge. Records dredging production information and makes entries on multiple load data sheets.
2. Periodically inspects dredging equipment and observes its working during production control watches. Any malfunction or maintenance needs are noted and coordinated with the Boatswain to obtain necessary repairs or preventive maintenance work.
3. May have charge of one or more lifeboats and/or life rafts. May also be required to stand duty watch aboard the vessel during tie-up periods.

Performs other duties as assigned.

SKILLS AND KNOWLEDGES

Required to possess a valid AB endorsement by the U.S. Coast Guard. Must possess the ability to understand the principles of operation of automated winches and related mechanical systems. Must be capable of being trained in the operation, troubleshooting, and repair of electronic-mechanical systems. Must have the ability to use the procedures associated with living on a vessel, such as life saving equipment.

RESPONSIBILITY

Works under the general supervision of the Mate on watch. Performs duties and carries out responsibilities in accordance with regulations governing the operation of the vessel. Work is given an occasional spot check by observation of the dredging operation and review of the production records. Regulatory controls consist of U.S. Coast Guard rules and regulations, and District policies and operating procedures.

PHYSICAL EFFORT

Light effort is required when performing inspections of dredging equipment. Work at the dredging control station is sedentary in nature.

WORKING CONDITIONS

Work is performed on the bridge and during inspections, on deck and in other locations of the vessel. Subject to extreme heat, cold and inclement weather while on the deck. There is danger of slipping on wet deck and from drowning.